GREASE KS-PS

SAFETY DATA SHEET

according to Regulation (EU) 2015/830



ISSUE DATE: 15.08.2014 REVISION DATE: 23.09.2019 SUPERSEDES DATE: 13.08.2015

VERSION: 3.1

1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name Grease KS-PS

Product code Ford Int. Ref. No.: 105098

SDS Number 5192

Product use Professional use

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Grease
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Supplier Distributor

Ford-Werke GmbH Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14 Parts Distribution Centre
50769 Cologne Royal Oak Way South

Germany NN11 8NT Daventry, Northants

+49 221 90-33333 United Kingdom sdseu@ford.com +44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH - 24/7)

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Environmental Hazardous to the aquatic environment — H400

hazards Acute Hazard, Category 1

Hazardous to the aquatic environment — H412 Harmful to aquatic life

Chronic Hazard, Category 3

Harmful to aquatic life with long lasting effects.

Very toxic to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms

Signal word Warning

Hazard statements

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Response

P391 Collect spillage

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

3. SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
copper	7440-50-8 231-159-6	10 -< 25	Acute Tox. 4 (Oral), H302	
			Aquatic Acute 1, H400 (M=10)	
			Aquatic Chronic 2, H411	

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves. Remove contaminated clothing. Wash

contaminated clothing before reuse.

Inhalation Remove person to fresh air and keep comfortable for breathing. If experiencing

respiratory symptoms: Call a poison center or a doctor.

Skin contact: If skin irritation occurs: Get medical advice/attention. Gently wash with plenty of

soap and water.

Eyes contact Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15

minutes minimum). Remove contact lenses, if present and easy to do. Continue

rinsing. Consult an ophtalmologist if irritation persists.

Ingestion Rinse mouth out with water. Do not induce vomiting. Call a poison center or a

doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water

spray.

Unsuitable extinguishing mediaDo not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products During fire, gases hazardous to health may be formed. Carbon oxides (CO,

CO2).

5.3. Advice for firefighters

Precautionary measures fire Move containers from fire area if it can be done without personal risk.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-

contained breathing apparatus. Complete protective clothing.

Other information Prevent liquid from entering sewers, watercourses, underground or low areas.

Collect the propellant mechanically and put it into a barrel with water.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures If spilled, may cause the floor to be slippery.

For non-emergency personnel

Protective equipment For further information refer to section 8: "Exposure controls/personal

protection".

Emergency procedures Ventilate spillage area. Keep unnecessary personnel away. Local authorities

should be advised if significant spillages cannot be contained.

For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or

onto the ground. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment Dispose of in accordance with local regulations. Collect spillage.

Methods for cleaning up Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface

thoroughly to remove residual contamination. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite.

Following product recovery, flush area with water.

Other information Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal

considerations".

7. SECTION 7: Handling and storage

Reference to other sections

7.1. Precautions for safe handling

6.4.

Precautions for safe handlingEnsure good ventilation of the work station. Wear personal protective equipment.

Avoid discharge into drains, water courses or onto the ground. Avoid contact

with eyes, skin, and clothing.

Hygiene measures Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Do not eat, drink or smoke when using this product. Always wash hands after handling

the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep out of reach of children. Store in a well-ventilated place. Keep cool.

Incompatible products Strong acids. Strong oxidizing agent.

Incompatible materials Heat sources. Moisture.

Special rules on packaging Keep only in original container. Keep container tightly closed and dry.

7.3. Specific end use(s) Grease.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom

Regulation	Substance	Туре	Value
EH40. HSE	copper (7440-50-8)	WEL TWA	0.2 mg/m³ fume (as Cu)
	Copper		1 mg/m³ and compounds, dusts and mists (as Cu)
		WEL STEL	2 mg/m³ and compounds, dusts and mists (as Cu)

DNEL: Derived no effect level

No data available

PNEC: Predicted no effect concentration

No data available

8.2. Exposure controls

Appropriate engineering controlsGood general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level

Materials for protective clothing Personal protection equipment should be chosen according to the CEN standards

and in discussion with the supplier of the personal protective equipment

Individual protection measures, such as personal protective equipment (PPE)

Eye protection EN 166. Wear security glasses which protect from splashes. Safety glasses

Skin protection

Hand protection EN 374. The recommendation is only valid for the supplied product and the

stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided

by the recommended glove

Material	Permeation	Thickness (mm)	Comments	
Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.	
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.	
Other protective measures		No additional information available		

Other protective measures No additional information available.

Respiratory protection [In case of inadequate ventilation] wear respiratory protection. Filter type:

Combinationfilter A-P2

Skin and body protectionLong sleeved protective clothing

Thermal hazard protection Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls Avoid release to the environment.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Solid Physical state **Appearance** Paste. Colour Grey. Odour Characteristic. Odour threshold No data available рΗ Not applicable Relative evaporation rate (butylacetate=1) No data available **Melting point** No data available Freezing point Not applicable **Boiling point** No data available Flash point > 220 °C Not applicable Auto-ignition temperature No data available **Decomposition temperature**

Flammability (solid, gas)

Vapour pressure

Relative vapour density at 20 °C

Relative density

Density

No data available

No data available

No data available

1 g/ml @25°C

Solubility insoluble in water. Insoluble in oils/fats.

Log PowNo data availableViscosity, kinematicNot applicableViscosity, dynamicNo data availableExplosive propertiesNo data availableOxidising propertiesNo data availableExplosive limitsNot applicable

9.2. Other information

VOC (EU) 0 %

10. SECTION 10: Stability and reactivity

10.1. Reactivity The product is non-reactive under normal conditions of use, storage and

transport.

10.2. Chemical stability Stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials Strong acids. Strong oxidizing agent. Strong bases.

Type

ATE

10.6. Hazardous decomposition products During fire, gases hazardous to health may be formed. Carbon oxides (CO,

CO2).

11. SECTION 11: Toxicological information

Method

(calculated

11.1. Information on toxicological effects

Acute toxicityBased on available data, the classification criteria are not met.

oral

Exposure route

Mixture Name

Grease KS-PS

STOT-repeated exposure

Aspiration hazard

	value)							
Substance								
Name	Method	Type	Exposure route	Value	Unit	Species	Remarks	
copper (7440-50-8)	(OECD 403 method)	LD50	oral	482	mg/kg bw	rat		
Skin corrosion/irritation			Based on available data, the classification criteria are not met.					
Serious eye damage/irritation			Based on available data, the classification criteria are not met.					
Respiratory or skin sensitisation			Based on available data, the classification criteria are not met.					
Germ cell mutagenicity			Based on available data, the classification criteria are not met					
Carcinogenicity			Based on available	data, the c	lassification	n criteria are n	ot met	
Reproductive toxicity			Based on available	data, the c	lassification	n criteria are n	ot met	
STOT-single exposur	е		Based on available	data, the c	lassification	n criteria are n	ot met	

Value

> 2000

Unit

mg/kg

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

Species

Remarks

12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Very toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks	
copper (7440-50-8)	Fish	Fish	LC50	38,4 µg/l	_ 96 h		
Chronic aquatic toxici	ty						
Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks	
copper (7440-50-8)	algae	algae	NOEC	0,2 - 0,4	2 - 3 d		
				mg/L			

12.2. Persistence and degradability

Grease KS-PS

Persistence and degradabilityNo data is available on the degradability of this product.

12.3. Bioaccumulative potential

Grease KS-PS

Bioaccumulative potential No bioaccumulation data available.

12.4. Mobility in soil

Grease KS-PS

Ecology - soil No additional information available.

12.5. Results of PBT and vPvB assessment

Grease KS-PS

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Other adverse effects

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions).

Waste treatment methods Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Product/Packaging disposal

European List of Waste (LoW) code

recommendations

Since emptied containers may retain product residue, follow label warnings even

after container is emptied. Empty containers should be taken for recycling,

recovery or waste in accordance with local regulation.

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

12 01 12* spent waxes and fats

15 01 10* packaging containing residues of or contaminated by

dangerous substances

14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	3077
UN-No. (IMDG)	3077
UN-No. (IATA)	3077
UN-No. (ADN)	3077
UN-No. (RID)	3077

14.2. UN proper shipping name

Proper Shipping Name (ADR)ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)Proper Shipping Name (IMDG)ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

Proper Shipping Name (IATA) Environmentally hazardous substance, solid, n.o.s. (copper)

Proper Shipping Name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)
Proper Shipping Name (RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 9
Danger labels (ADR) 9

IMDG

Transport hazard class(es) (IMDG) 9
Danger labels (IMDG) 9

IATA

Transport hazard class(es) (IATA) 9
Hazard labels (IATA) 9

ADN

Transport hazard class(es) (ADN) 9
Danger labels (ADN) 9

RID

Transport hazard class(es) (RID) 9
Danger labels (RID) 9

14.4. Packing group

Packing group (ADR) III
Packing group (IMDG) III
Packing group (IATA) III
Packing group (ADN) III
Packing group (RID) III

14.5. Environmental hazards

Dangerous for the environment Yes
Marine pollutant Yes

Other information No supplementary information available.

14.6. Special precautions for user

Overland transport

Classification code (ADR) M7

Special provisions (ADR) 274, 335, 375, 601

Limited quantities (ADR) 5kg

Packing instructions (ADR) P002, IBC08, LP02, R001

Hazard identification number (Kemler No.) 90
Tunnel restriction code (ADR) EAC code 2Z

Transport by sea

Special provisions (IMDG) 274, 335, 966, 967, 969

Limited quantities (IMDG)5 kgPacking instructions (IMDG)LP02, P002EmS-No. (Fire)F-AEmS-No. (Spillage)S-FStowage category (IMDG)A

Air transport

PCA Excepted quantities (IATA) E1
PCA Limited quantities (IATA) Y956
PCA limited quantity max net quantity 30kgG

(IATA)

PCA packing instructions (IATA) 956
PCA max net quantity (IATA) 400kg
CAO packing instructions (IATA) 956
CAO max net quantity (IATA) 400kg

Special provisions (IATA) A97, A158, A179, A197

ERG code (IATA) 9L

Inland waterway transport

Classification code (ADN) M7

Special provisions (ADN) 274, 335, 375, 601

Limited quantities (ADN) 5 kg Carriage permitted (ADN) 7^* B^{**}

Rail transport

Classification code (RID) M7

 Special provisions (RID)
 274, 335, 375, 601

 Packing instructions (RID)
 P002, IBC08, LP02, R001

Hazard identification number (RID) 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU) 0 %

Other information, restriction and prohibition regulations

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. For details, refer to

section 3 and 8.

Seveso Information National regulations E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. SECTION 16: Other information

Indication of changes

Section 1 - Section 16.

EU

Abbreviations and acronyms

ribbiotiationo ana acronymo	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
ow .	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
ONEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)

European Union

GLP Good Laboratory Practice.

GHS Globally Harmonized System of Classification and Labeling of Chemicals.

GW/VL Occupational exposure limit value.

GW-kw/VL-cd Occupational exposure limit value - short term.

GW-M/VL-M Occupational exposure limit value - "Ceiling".

IATA International Air Transport Association

IBC code International Bulk Chemical (Code) (International Code for the Construction and Equipment of

Ships carrying Dangerous Chemicals in Bulk).

ICAO International Civil Aviation Organization

IC50 Inhibition Concentration 50%.

IECSC Inventory of Existing Chemical Substances in China.

IMDG International Maritime Dangerous Goods
ISO International Standards Organization.

IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal Concentration 50%.

LCLo Lowest published lethal concentration.

LD50 Lethal Dose 50%.

LOAEL Lowest Observed Adverse Effect Level

LOEC Lowest observable effect concentration.

LOEL Lowest observable effect level.

LQ Limited quantities

TRK-Kzw Threshold limit value - Short-term exposure limit / Technical reference concentration - short-

time value, Austria.

MAK-Mow Maximum allowable workplace concentration – instantaneous value, Austria.

MAK-Tmw, TRK-Tmw Maximum allowable workplace concentration – daily mean value / Technical standard

concentration - daily mean value, Austria.

MAK Threshold limit values Germany.

MARPOL International Convention for the Prevention of Pollution from Ships.

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration

NOEL no-observed-effect level

OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limits

PBT Persistent Bioaccumulative Toxic

PC (Chemical product PC (Chemical product category)

category)

PNEC Predicted No-Effect Concentration

POCP Photochemical ozone creation potential.

POP Persistent Organic Pollutants
PPE Personal protective equipment

Process category Process category

REACH Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006

concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL Specific concentration limit.
STEL Short-term Exposure Limit

STP Sewage treatment plant

SU (Sector of use) SU (Sector of use)

SVHC Substance of Very High Concern.

TLV Threshold Limit Value

TRGS Technical Rules for Hazardous Substances (German Standard).

TWA Time Weighted Average

UVCB Substances of Unknown or Variable composition, Complex reaction products or Biological

materials

VbF Ordinance on Flammable Liquids, Austria

VOC Volatile organic compounds

vPvB Very Persistent and Very Bioaccumulative

WEL-TWA Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted

average)reference period).

WEL-STEL Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4.

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1.

Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2.

Aquatic Chronic 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3.

H302 Harmful if swallowed.
H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Aquatic Acute 1 H400 Calculation method

Aquatic Chronic 3 H412 Expert judgment

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.